

BONE INDUCING ORGANISM MATERIAL

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Abstract

PURPOSE: To obtain the titled material especially useful in a dental field, by blending calcium phosphate compound powder with an aqueous solution of an organic acid and advantageously further collagen at room temperature to give a cured material, bonding a bone shape forming protein factor to the surface of the cured material and arranging the factor on the surface.

CONSTITUTION: A calcium phosphate compound is blended and kneaded with an aqueous solution of an organic acid. Before curing finishes, a bone shape forming protein factor is adsorbed on and bonded to the surface of the blend. The material is packed into alveolar bone or deficient parts thereof especially in a dental field, bone deficient parts and void parts caused by bone tumor of organism, etc., induces and forms new bone. The cured material itself is gradually dissolved and replaced with bone tissue of organism. The material is further kneaded with acid-soluble collagen when mechanical strength and bone inducing ability in the packed part are required. The bone forming protein factor is preferably (glyco)protein having 1,000-100,000mol.wt. extracted from bovine bone or human bone.

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